

Solar Cable



Technical data

- **Nominal voltage** 600/1000 V
Test voltage 4000 V
- **Temperature range** -40 °C to +125 °C
Ambient temperature
- >25 years(TÜV)
-40 °C to +90 °C
- **Max. short circuit temperature** 280 °C
Minimum bending radius
5 x cable diameter

Properties

- Electron-beam cross-linked compounds
- UV and ozone resistant
- Hydrolysis resistant
- High temperature resistant; the materials do not melt or flow
- Good cold flexibility
- Very long life cycle: 25 years guarantee
- Compatible to all popular connectors
- **UL listed (UL File No. E335355)**
- **TÜV Approval (Certificate No. R 50198995 001)**

Cable structure

- Conductor: Finely stranded tinned copper
- Insulation: XL-LSZH
- Sheath: XL-LSZH

Standards

- **Fire performance**
IEC 60332-1; UL 1581; VW - 1
- **Smoke emission**
IEC 61034: EN 50268-2
- **Low fire load**
DIN 51900
- **Approvals** TÜV 2Pfg 1169/08.2007 PV1-F,
UL 4703 PV wire
- **Application standards**
NEC 2008/UL PV wire

Application

Solar cables (PV Cables) are used for the photovoltaic power supply system. It can be used indoor and outdoor.

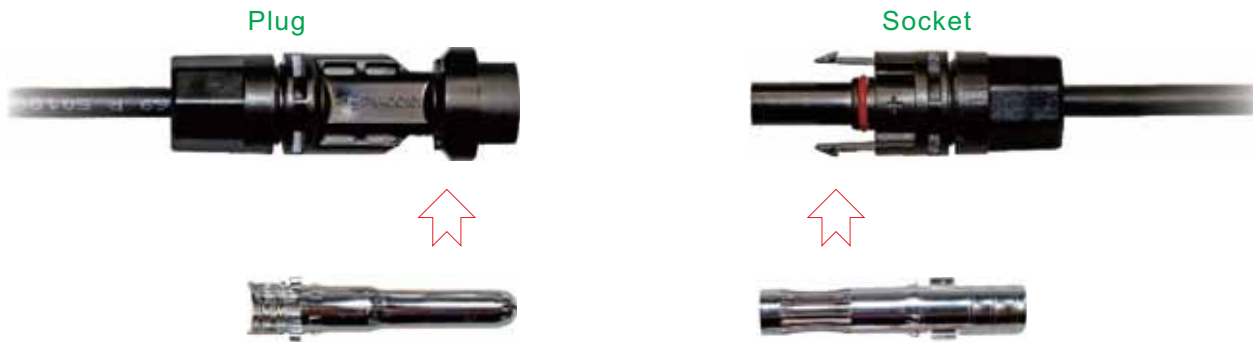
Solar Cable



AWG-no.	NO. Cores x cross section mm ²	Outer Diameter mm	Cable Weight kg/km	Sheath color
14	1 x 2.5	5.8	55	Black
14	1 x 2.5	5.8	55	Red
14	1 x 2.5	5.8	55	Blue
12	1 x 4	6.7	85	Black
12	1 x 4	6.7	85	Red
12	1 x 4	6.7	85	Blue
10	1 x 6	7.6	95	Black
10	1 x 6	7.6	95	Red
10	1 x 6	7.6	95	Blue
8	1 x 10	9.6	110	Black
8	1 x 10	9.6	110	Red
8	1 x 10	9.6	110	Blue
6	1 x 16	11.0	170	Black
6	1 x 16	11.0	170	Red
6	1 x 16	11.0	170	Blue
4	1 x 25	13.1	295	Black
4	1 x 25	13.1	295	Red
4	1 x 25	13.1	295	Blue
2	1 x 35	14.1	395	Black
2	1 x 35	14.1	395	Red
2	1 x 35	14.1	395	Blue
1	1 x 50	17.4	630	Black
1	1 x 50	17.4	630	Red
1	1 x 50	17.4	630	Blue



Solar Connector



Technical data

- **Nominal voltage** 1000V (IEC), 600V (UL)
- **Temperature range** -40 °C to +90 °C
- **Rated current** 22A (2.5mm²); 30A (4mm², 6mm²)
- **Protection degree** IP67
- **Protection class** Class II
- **Test voltage** 6 kV
- **Contact resistance** <5mOhm
- **Contact material** tinned copper
- **Insulation material** PPO
- **Cable types** 2.5mm² (14AWG), 4.0mm² (12AWG), 6.0mm² (10AWG)

Properties

- Quick and easy secure snap lock mating
- UV- and ozone resistant
- Protection mode IP67 in mated condition
- The connector design has got the patent

Application

Solar connector is used for the easy and reliable connection of the solar cables to the photovoltaic system.

Wind Power Cable



Technical data

- **Temperature range**
-45 °C to +90 °C
- **Nominal voltage** 450/750 V
- **Minimum bending radius**
6 x cable diameter

Properties

- UV-resistance
- Flame retardant
- Oil resistance
- Water proof
- Chemical resistant
- Torsion resistant

Type: H07RN-F

Cable structure

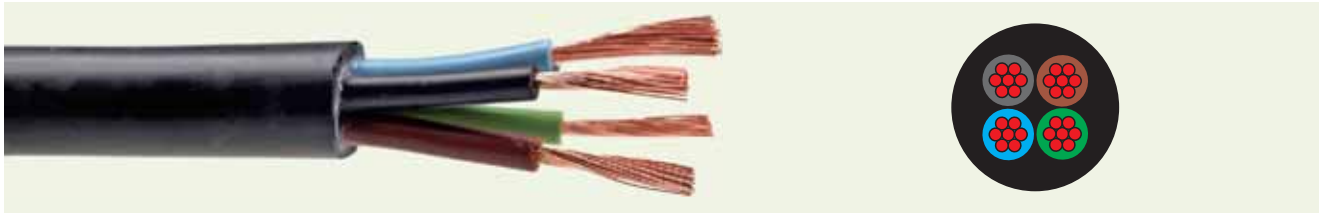
- Finely strand bare copper
- Insulation: EPR Rubber
- Core identification: according to DIN VDE0293(HD 308)
- Sheath: PCP rubber or other equivalent compound with property of oil resistance, low temperature flexible and weather resistance.
- Sheath color: black

Application

Wind power cable is used as a connecting cable between wind generator and other equipment. The torsion-resistant feature makes it ideal for the windmill application.

NO. Cores x Cross-sec. mm ²	Conductor Diameter mm	Cable Diameter mm	Current Capacity A
1 x 1.5	1.5	5.7-7.1	28
1 x 2.5	1.95	6.3-7.9	38
1 x 4	2.5	7.2-9.0	51
1 x 6	3.0	7.9-9.8	66
1 x 10	3.9	9.5-11.9	92
1 x 16	5.0	10.8-13.4	120
1 x 25	6.4	12.7-15.8	163
1 x 35	7.7	14.3-17.9	205
1 x 50	9.2	16.5-20.6	247
1 x 70	11.0	18.6-23.3	311
1 x 95	12.5	20.8-26.0	375
1 x 120	14.2	22.8-28.6	438
1 x 150	15.8	25.2-31.4	509

Wind Control Cable



Technical data

- **Temperature range**
flexing: -35 °C to +90 °C
fixed installation: -40 °C to +90 °C
- **Bending radius** 10 x cable diameter
- **Nominal voltage** 600/1000 V
- **Test Voltage** 3000 V
- **Torsion application:** +/-90°/ m

Properties

- Torsion resistant
- UV-resistant and ozone
- Flame restardant
- Oil resistant and water proof
- Chemical resistant

Cable structure

- Conductor: finely stranded bare copper
- Insulation: flexible PVC
- Screen: tinned copper wrapped
- Sheath: flexible PVC

Standards

- **Conductor stranding:** DIN VDE 0295 class 5 and IEC 60228 class 5
- **Fire performance:** VDE0472 804B & IEC 60332-1,FT1,FT4
- **Oil resistance:** EN60811-2-1

Application

Wind control cables are specifically designed for use in wind turbines.

NO. Cores x Cross-sec. mm ²	AWG/ MCM	Outer Diameter mm	Cable Weight kg/km
1 x 70	2/0	19.8	950.0
1 x 95	3/0	22.5	1280.0
1 x 120	4/0	25.0	1570.0
1 x 150	300	27.8	2000.0
4 x 0.5	20	8.0	105.0
5 x 0.75	18	9.0	145.0
7 x 1.5	16	11.9	195.0
12 x 2.5	14	18.2	638.0
12 x 4	12	20.0	806.0
2 x 2 x 0.25	24	8.9	90.0
4 x 2 x 0.5	20	11.5	190.0
8 x 2 x 0.75	18	17.1	410.0